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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Stephen A. Tarin	Confirmation No.:	9035
Serial No.:	10/629,812	Art Unit:	2162
Filed:	July 28, 2003	Examiner:	Alam, Shahid Al
For:	VALUE-INSTANCE- CONNECTIVITY COMPUTER- IMPLEMENTED DATABASE	Attorney Docket No.:	8676-041 (909537-999036)

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

## 1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ A list of all patents, publications, applications, or other information submitted for consideration by the office.
- 1b. A legible copy of :
- ☒ Each publication or that portion which caused it to be listed on the PTO-1449;
  - ☐ For each cited pending unpublished U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion that have been checked to be unavailable at the USPTO's private PAIR system;
  - ☒ An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report;
  - ☐ Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications;
  - ☐ All other information or portion which caused it to be listed on the PTO-1449.
- 1c. ☒ Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), copies of the cited U.S. patents and U.S. patent application publications are not submitted herewith unless required by the office.
- 1d. ☐ Pursuant to 1287 OG 163, copies of cited pending unpublished applications that are available at the USPTO's private PAIR system are not submitted herewith.

2. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b):

- ☐ Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- ☐ Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
- ☐ Before the mailing of the first Office action on the merits;
- ☐ Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.

3. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.

*(Check either Item 3a or 3b)*

- 3a. ☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
- 3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is:
- ☐ enclosed.
  - ☐ to be charged to Jones Day Deposit Account No. 50-3013.

*(Item 3b to be checked if any reference known for more than 3 months)*

4. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.

The Certification Statement in Item 5 below is applicable.

The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:

- ☐ enclosed.
- ☐ to be charged to Jones Day Deposit Account No. 50-3013.

5. ☐ Certification Statement (applicable if Item 3a or Item 4 is checked):

*(Check either Item 5a or 5b)*

- 5a. ☐ In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- 5b. ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not **received** by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 5c. ☐ Pursuant to 37 C.F.R. §1.704(d), each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not **received** by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.

6. ☒ This application is a continuation application under 37 C.F.R. §1.53(b) or (d).

*(Check appropriate Items 6a, 6b and/or 6c)*

- 6a. ☐ A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
- 6b. ☒ Copies of publications C02-C15 listed on Form PTO-1449 from prior application Serial No. 09/112,078, filed on July 8, 1998, now U.S. Patent No. 6,009,432, of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
- 6c. ☒ Copies of the publication C01, C16-C21 listed on Form PTO-1449 were not previously cited in any applications of which this application claims priority under 35 U.S.C. §120, and are provided herewith.
7. ☒ This is a Supplemental Information Disclosure Statement. (Check Item 7a)
- 7a. ☒ This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on July 21, 2006. A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on July 21, 2006.
8. ☐ In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:
- ( Check Item 8a, 8b, or 8c)*
- 8a. ☐ Satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
- 8b. ☐ Set forth in the application.
- 8c. ☐ Enclosed as an attachment hereto.
9. ☒ The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Jones Day Deposit Account No. 50-3013.
10. ☒ No admission is made that the information cited in this Statement is, or is considered to be, material to patentability and no representation is made that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).

Respectfully submitted,

Date: August 2, 2006

Ognjan V. Shentov

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Substitute for Form 1449/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO.	APPLICATION NO.
	8676-041	10/629,812
	APPLICANT: Stephen A. Tarin	
	FILING DATE:	ART UNIT:      CONF. NO.:
	July 28, 2003	2162              9035

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS*	DOCUMENT NUMBER	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A01	US 6,484,179	11/19/2002	Roccaforte
	A02	US 6,272,487	8/7/2001	Beavin, et al.
	A03	US 5,794,228	8/11/1998	French, et al.
	A04	US 5,701,453	12/23/1997	Maloney, et al.
	A05	US 5,819,086	10/6/1998	Kroenke
	A06	US 6,006,219	12/21/1999	Rothschild

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS*	Country Code, Number, Kind of Code (if known)	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION
					YES      NO
	B01				
	B02				

**NON PATENT LITERATURE DOCUMENTS** (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.), date, page(s), volume, publisher, city and/or country where published, etc.)

EXAMINER'S INITIALS*		
	C01	Abdelguerfi, M et al., "Computer Complexity of Sorting and Joining Relations with Duplicates", IEEE Transaction on Knowledge And Data Engineering, Volume 3, No. 4, December 1991, Pages 496-503
	C02	Fiat et al., 1991, "An Implicit Data Structure for Searching a Multikey Table in Logarithmic Time," Journal of Computer and System Sciences vol. 43, 406-424
	C03	Fiat et al., 1988, "Storing and Searching a Multikey Table," ACM, pp. 344-353
	C04	Knuth, D. E., 1998, "The Art of Computer Programming," 2d Ed., vol. 3, 5, 584, Addison-Wesley Publishing Company
	C05	Lehman et al., August, 1986, "A Study of Index Structures for Main Memory Database Management Systems," Proc. 12 <sup>th</sup> Int'l Conf., Very Large Data Bases, Kyoto, Japan, pp. 294-303
	C06	Lehman et al., 1986, "Query Processing in Main Memory Database Management Systems," ACM, pp. 239-250
	C07	Munro, 1987, "Searching a Two Key Table Under a Single Key," ACM pp. 383-387
	C08	Nevergelt et al., 1984, "The Grid File: An Adaptable, Symmetric Multikey File Structure," ACM, pp. 108-124
	C09	Yao, July 1981, "Should Tables Be Sorted?," Journal of the Assoc. of Computing Machinery, vol. 28, no. 3, pp. 615-628
	C10	Babb, "Implementing a Relational Database by Means of Specialized Hardware," ACM Transactions on Database Systems, vol. 4, no.1, March 1979, pp. 1-29
	C11	Goldstein et al., "The MacAIMS Data Management System," Record of the 1970 ACM SICFIDET Workshop on Data Description and Access, Nov. 15-16, 1970, pp. 201-229

EXAMINER  
NYJD-1632055v1

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for Form 1449/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO.	APPLICATION NO.
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**NON PATENT LITERATURE DOCUMENTS** (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.), date, page(s), volume, publisher, city and/or country where published, etc.)

EXAMINER'S INITIALS*		
	C12	Goldstein <i>et al</i> , "Database Management with Sequence Trees and Tokens," IEEE Transactions on Knowledge and Data Engineering, vol. 9, no. 1, Jan-Feb 1997, pp. 186-192
	C13	Sharman, "Update-By-Dialogue: An Interactive Approach to Database Modification," ACM SIGMOD International Conference on Management of Data, Toronto, Canada, Aug. 3-5, 1977
	C14	Strnad, "The Relational Approach to the Management of Data Bases," Information Processing 71, Proc. Of IFIP Congress 71, vol. 2, Ljubljana, Yugoslavia, Aug. 23-28, 1971, published 1972, pp. 901-904
	C15	Titman, "An Experimental Data Base System Using Binary Relations," Database Management, North-Holland Publishing Company, 1974, pp. 351-360
	C16	Chinese Patent Application No. 99810695.X First Office Action dated July 12, 2002
	C17	Chinese Patent Application No. 99810695.X Second Office Action dated August 5, 2005
	C18	PCT/US99/15431 International Search Report dated October 22, 1999
	C19	PCT/US99/15431 International Preliminary Examination Report dated March 29, 2000
	C20	PCT/US01/47678 International Search Report dated March 29, 2002
	C21	PCT/US01/47678 International Preliminary Examination Report dated August 9, 2002

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